

Deutsche Akkreditierungsstelle GmbH

Annex to the Accreditation Certificate D-PL-19994-01-00 according to DIN EN ISO/IEC 17025:2005

Period of validity: 29.10.2018 to 26.11.2020

Date of issue: 29.10.2018

Holder of certificate:

IFAB Ingenieure für angewandte Brandschutzforschung GmbH
Pankstraße 8-10, Haus A, 13127 Berlin

Tests in the fields:

Proof of the effectiveness of water-based fire-fighting systems by fire tests for rolling stock (rail vehicles), industrial plants, public places, store rooms, engine and machinery spaces as well as tunnel- and transport infrastructure systems

Abbreviations used: see last page

Fire tests

IFAB 7-1-1/1 06-2018	Procedure to determine temperature development in the surrounding of fires as proof of fire control, -suppression or -extinguishment
IFAB 7-1-1/2 06-2018	Procedure to determine the amount of released fire-fighting agent by pressure measurement
IFAB 7-1-1/3 06-2018	Procedure to determine the concentration of oxygen, carbon monoxide and -dioxide in the surrounding of fire to proof the fulfillment of specific protection objectives such as the rescue of humans and animals
DIN CEN/TS 14972 2011	Fixed fire-fighting systems - Watermist systems - Design and installation (Annex A.1, A.2, A.3 and F)

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IMO Resolutions MSC 265 (84) 05-2008	Amendments to the revised guidelines for approval of sprinkler systems equivalent to that referred to in SOLAS regulation II-2/12 (Resolution A.800(19))
UNI 11565 12-2014	Railway Vehicles - Design, Installation, Validation and maintenance of fire detection and extinguishing systems to be utilized in rail vehicles - General Principles Annex B - Fire protection/Extinguishing system test <i>(here: without measuring the HCN concentration)</i>
SOLIT Engineering Guidance 2012	Engineering Guidance for a Comprehensive Evaluation of Tunnels with Fixed Fire Fighting Systems using the example of water based Fixed Fire Fighting Systems (part 3)
SOLIT Engineering Guidance Annex 7 2012	Fire Tests and Fire Scenarios for Evaluation of FFFS (Annex 7)
ARGE-Richtlinie BBA - Teil 2	Fire-fighting in Rolling Stock - Functional assessment procedure for the effectiveness of fire-fighting systems in rooms accessible to persons, in electric cabinets and in areas of combustion engines
FM 5560:2012 Appendices: A - M	Approval standard for water mist systems / Fire tests

Abbreviations used:

IMO	International Maritime Organisation
IFAB	In-house procedures of IFAB GmbH
FM	Associated Factory Mutual Fire Insurance Companies
ARGE	Cooperation of consortium for fire protection technologies
SOLIT	Safety Of Life In Tunnels